
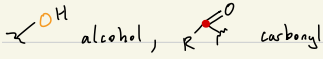
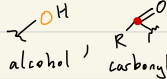
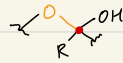
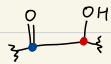
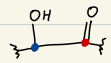
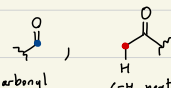

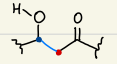
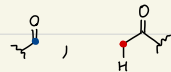
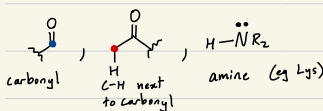
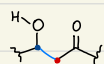
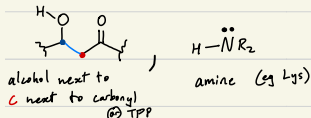
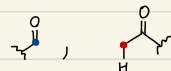
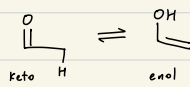
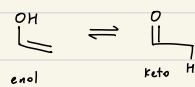
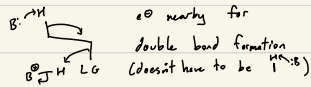

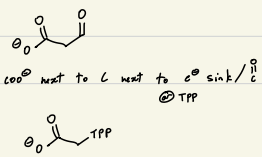
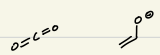


Enzyme Mechanism	NEED!	GET!
Phosphorylation	$-O^-$ nuc, Phosphate	phosphorylated product
Dephosphorylation	nuc to attack, $C-OP$	nuc $-C$ dephosphorylated substrate, OP (phosphate)
Ring break (break C-O)		
Ring form (form C-O)		
Aldose - Ketose	 carbonyl next to alcohol	
Aldol (form C-C)	 carbonyl, C-H next to carbonyl	
Retro-aldol (break C-C)	 alcohol next to C next to carbonyl	
Aldol (form C-C) w imine	 carbonyl, C-H next to carbonyl, amine (eg Lys)	
Retro-aldol (break C-C)	 alcohol next to C next to carbonyl, amine (eg Lys) ⊖ TPP	
Keto-enol tautomerization	 keto H enol	 enol keto H
Elcb elimination	 B: H, B: H LG, e- nearby for double bond formation (doesn't have to be H-B:)	 + H-LG
Decarboxylation	 COO- next to C next to e- sink / C=O ⊖ TPP	 O=C=O